

ABSTRACT OF THE DISCLOSURE

A Micro Electro-Mechanical System (MEMS) acceleration sensing device, formed of
a an elongated sensing element of substantially uniform thickness suspended for motion
relative to a rotational axis offset between first and second ends thereof such that a first
5 portion of the sensing element between the rotational axis and the first end is longer than a
shorter second portion between the rotational axis and the second end; a stationary silicon
substrate spaced away from the sensing element; a capacitor formed by a surface of the
substrate and each of the first and second portions of the sensing element; and a valley
formed in the substrate surface opposite from the first longer portion of the sensing element
10 and spaced away from the rotational axis a distance substantially the same as the distance
between the rotational axis and the second end of the sensing element.